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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/772,890	02/04/2004	Jeffrey Gabbay	082871-000700US	5373
20350 7590 06/19/2007 TOWNSEND AND TOWNSEND AND CREW, LLP TWO EMBARCADERO CENTER			EXAMINER	
			HANDY, NIKKI R	
EIGHTH FLC SAN FRANC	OOR ISCO, CA 94111-3834	•	ART UNIT PAPER NU	
	,		1616	
			MAIL DATE	DELIVERY MODE
			06/19/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)			
Office Action Summary		10/772,890	GABBAY, JEFFREY			
		Examiner	Art Unit			
		Nikki Handy	1616			
Period fo	The MAILING DATE of this communication app or Reply	pears on the cover sheet with the	correspondence address			
A SH WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.1: SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be ti will apply and will expire SIX (6) MONTHS from c, cause the application to become ABANDONE	N. mely filed the mailing date of this communication. ED (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on <u>06 O</u>	ctober 2006.				
,	This action is FINAL . 2b) This action is non-final.					
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims					
4)⊠	Claim(s) <u>1-37</u> is/are pending in the application.					
	4a) Of the above claim(s) 1-4,10-27 and 29 is/are withdrawn from consideration.					
	Claim(s) is/are allowed.					
	Claim(s) <u>5-9,28 and 30-37</u> is/are rejected.					
,	Claim(s) is/are objected to. Claim(s) are subject to restriction and/o	r election requirement				
8)	claim(s) are subject to restriction and/o	i election requirement.				
Applicat	ion Papers					
,	The specification is objected to by the Examine					
10)	The drawing(s) filed on is/are: a) acc					
	Applicant may not request that any objection to the					
111	Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex					
,			, , , , , , , , , , , , , , , , , , ,			
•	under 35 U.S.C. § 119					
	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document		ı)-(d) or (f).			
	2. Certified copies of the priority document	s have been received in Applicat	lion No			
	3. Copies of the certified copies of the prio	•	ed in this National Stage			
	application from the International Bureau					
* \	See the attached detailed Office action for a list	or the certified copies not receiv	ea.			
Attachmer		»П.,	(DTO 449)			
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summar Paper No(s)/Mail D				
3)	rmation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	5) Notice of Informal 6) Other:	Patent Application			

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DETAILED ACTION

Status of Claims

Claims 5-9, 28, and 30-37 are pending. Claims 1-4, 11, 13, 16, 20, 22, 24, 26 and 27 have been canceled. Claims 10, 12, 14, 15, 17, 18, 19, 21, 23, 25 and 29 are withdrawn. Receipt of Applicant's amended claims and remarks/arguments filed on October 6, 2006 are acknowledged.

The rejection of Claims 4-9, 27 and 28 under 35 U.S.C. 102(b) as being anticipated by Jacobson et al. (U.S. Patent 5,180,585) is withdrawn because the applicant's arguments are persuasive.

Response to Restriction Requirement

It should also be noted that the applicant has requested reconsideration and withdrawal of the Restriction Requirement of Claim 29. The traversal is on the ground(s) that there would not be undue burden in examining product Claim 29. The traversal has not been found persuasive. The examiner cites that the prior art search required for each respective component would be divergent, thereby causing an undue burden.

Statutory Double Patenting

A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain <u>a</u> patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re*

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Ockert, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

Claims 5, 6, 8 and 28 are rejected under 35 U.S.C. 101 as claiming the same invention as that of claims 1, 2, 5, 6, 8, 15, 19, 20, 23, 27, 30 and 31 of prior U.S. Patent No. 7,169, 402 B2. This is a double patenting rejection.

Provisional Nonstatutory Double Patenting

The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. A nonstatutory obviousness-type double patenting rejection is appropriate where the conflicting claims are not identical, but at least one examined application claim is not patentably distinct from the reference claim(s) because the examined application claim is either anticipated by, or would have been obvious over, the reference claim(s). See, e.g., *In re Berg*, 140 F.3d 1428, 46 USPQ2d 1226 (Fed. Cir. 1998); *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422

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F.2d 438, 164 USPQ 619 (CCPA 1970); and *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) or 1.321(d) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent either is shown to be commonly owned with this application, or claims an invention made as a result of activities undertaken within the scope of a joint research agreement.

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Claims 5, 6, 8, and 28 are rejected for "obviousness-type" double patenting over conflicting claims 1, 2, 5, 6 and 8 of copending application serial no. 11/648,858.

More specifically Claims 5, 6, 8, 19 and 28 of the instant application are directed to an antiviral hydrophilic polymeric material in the form of a film comprising: a hydrophilic polymer selected from the group consisting of polyvinylalcohol, acrylic, nitrile, "silastic rubber" or latex; and a cationic copper powder mixture of water insoluble particles of divalent copper cations Cu⁺⁺ and univalent copper cations Cu⁺; wherein said water insoluble particles are from about 1 μm to about 10 μm in diameter and are encapsulated within said hydrophilic polymer in an amount from about 1 wt. % to about 3 wt. %.

Claims 1, 2, 5, 6, and 8 of the conflicting copending application serial no. 11/648,858 are directed to an antimicrobial and antiviral polymeric material, having

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microscopic particles of ionic copper encapsulated therein and protruding from surfaces where the polymeric material is a film. The size of the particles are between 1 and 10 microns. The particles are in the amount between 0.25 and 10% of the polymer weight. Furthermore, a condom comprises an antiviral polymeric material, having microscopic particles of ionic copper.

As a result, although claims 5, 6, 8 and 28 of the instant application are not identical to claims 1, 2, 5, 6 and 8 of the conflicting copending application serial no. 11/648,858, the aforementioned claims are not patentably distinct each from the other because said claims are substantially overlapping in scope as discussed hereinabove. This is a provisional non-statutory double patenting rejection since the conflicting claims have not yet been patented.

Claims 5-7 and 28 are rejected for "obviousness-type" double patenting over conflicting claims 1-4 of copending U.S. Pre-Grant Patent Application Publication 2004/0247653 (hereinafter the conflicting Gabbay '653 publication).

More specifically, claims 5-7 and 28 of the instant application are directed to an antiviral hydrophilic polymeric material in the form of a film comprising: a hydrophilic polymer selected from the group consisting of polyvinylalcohol, acrylic, nitrile, "silastic rubber" or latex; and a cationic copper powder mixture of water insoluble particles of divalent copper cations Cu^{++} and univalent copper cations Cu^{++} ; wherein said water insoluble particles are from about 1 μ m to about 10 μ m in diameter and are encapsulated within said hydrophilic polymer in an amount from about 1 wt. % to about 3 wt. %.

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Claims 1-4 of the conflicting Gabbay '653 publication are directed to an antimicrobial and antiviral polymeric material in the form of a sheet comprising: a polymer selected from the group consisting of polyamide, polyalkylene, polyester and acrylic; and a cationic copper powder mixture of water insoluble particles of divalent copper cations Cu⁺⁺ (released from a cupric oxide or CuO) and a univalent copper cations Cu⁺ (released from cuprous oxide or Cu₂O); wherein said water insoluble particles are from about 1 μm to about 10 μm in diameter and are embedded within said polymer in an amount from about 0.25 wt. % to about 10 wt. %.

As a result, although claims 5-7 and 28 of the instant application are not identical to claims 1-4 of the conflicting Gabbay '653 publication, the aforementioned claims are not patentably distinct each from the other because said claims are substantially overlapping in scope as discussed hereinabove. This is a provisional non-statutory double patenting rejection since the conflicting claims have not yet been patented.

Because neither the instant application and '653 are in condition for allowance, this rejection has been made provisionally and the applicant has not filed a terminal disclaimer.

Claim Rejections - 35 USC § 112

The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

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Claims 5-9, 28 and 30-37 rejected under 35 U.S.C. 112, first paragraph, because the specification, while being enabling for the inactivation of the Herpes Simplex Virus Type 1, does not reasonably provide enablement for the inactivation of all viruses. The

specification does not enable any person skilled in the art to which it pertains, or with

which it is most nearly connected, to use the invention commensurate in scope with

these claims.

For rejections under 35 U.S.C. 112, first paragraph, the following factors must be considered (In re Wands, 8 USPQ2d 1400, 1404 (CAFC, 1988)):

1) The nature of the invention.

2) The state of the prior art.

3) The existence of working examples.

4) The breadth of claims.

5) The amount of direction and guidance provided by the inventor.

6) The predictability of the art.

7) The relative skill of those in the art.

8) The quantity of experimentation necessary.

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1) Nature of the invention.

The nature of the invention relates to a multi-layered hydrophilic polymeric material for the inactivation of a virus where copper oxide particles release both Cu^{+} or Cu^{+} .

2) State of the prior art.

The state of the prior art suggests that there is no means of <u>inactivating</u> a virus using a multi-layered hydrophilic polymeric material. Jones et al. teach copper (cupric oxide) in the <u>treatment</u> of influenza virus infection. See Jones et al. (U.S. Patent No. 6,107,281, Column 4, lines 6, 15 and 16).

3) Existence of working examples.

Working examples can be found on pages 15-18 where applicant teaches the inactivation of HIV-1 type virus and HSV-1 type virus. Example 2 demonstrates the effects of Cupron copper-containing latex bags and its ability to deactivate the virus. The observations of the studies suggest a device is effective for inactivating viruses in fluids brought in contact therewith and thus e.g. blood storage bags can assure that blood stored therein will not transmit a virus to a recipient of said blood.

4) Breadth of claims.

The claims are directed to the inactivation of a virus using a multi-layered hydrophilic polymeric material where copper oxide particles release both Cu⁺⁺ or Cu⁺. The inactivation of a virus encompasses <u>all</u> viruses. Hence the claims are broad.

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5) Amount of direction and guidance provided by the inventor.

The amount of direction or guidance present is found in the specification on page 16 wherein studies were performed using aliquots of medium containing HIV in sterile Cupron copper-containing latex bags to demonstrate the inactivation of HIV. The data present does not show support for the inactivation of HIV. Hence there is no guidance provided for the inactivation of HIV or all viruses.

6) The predictability of the art.

There is no known treatment for the <u>inactivation</u> of <u>all</u> viruses, therefore the ability to inactivate <u>all</u> viruses is highly suspect.

The essential element required for the validation of a preventive therapeutic is the ability to test the subjects under conditions that would be suitable humans. In view of the teachings above, and the lack of guidance and/or exemplification in the specification, it is not believable that the <u>inactivation</u> of a virus can be achieved.

Objection to Claims

Claim 25 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 23. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

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Telephonic Inquiry

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Nikki Handy whose telephone number is (571) 272-9923. The examiner can normally be reached on Monday-Friday 8:30 am-5:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Johann Richter can be reached on (571) 272-0646. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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Nikki Handy Patent Examiner Art Unit 1616

Johann Richter

Supervisory Patent Examiner Technology